



Elwha River Restoration Project Update July 25, 2014

**SAC Meeting
Port Angeles, Washington**

Olympic National Park



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Olympic National Park



Olympic National Park



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Olympic National Park



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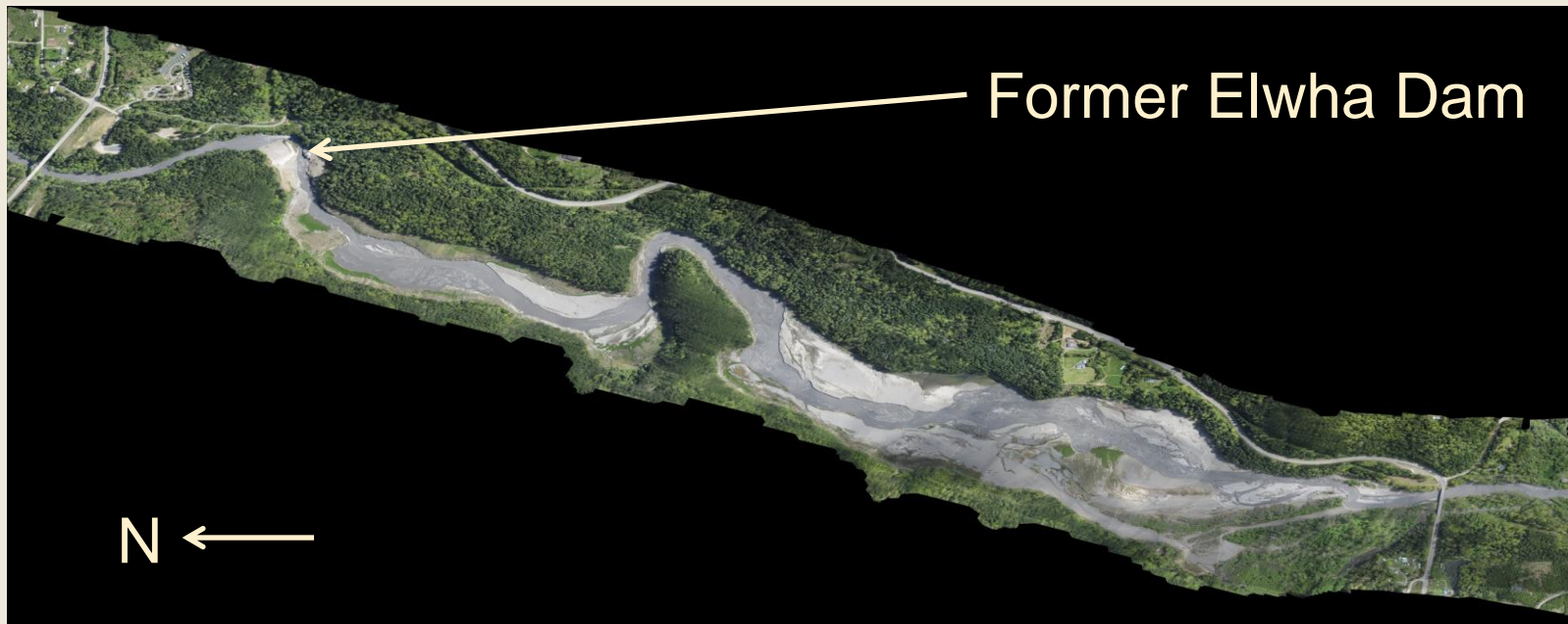


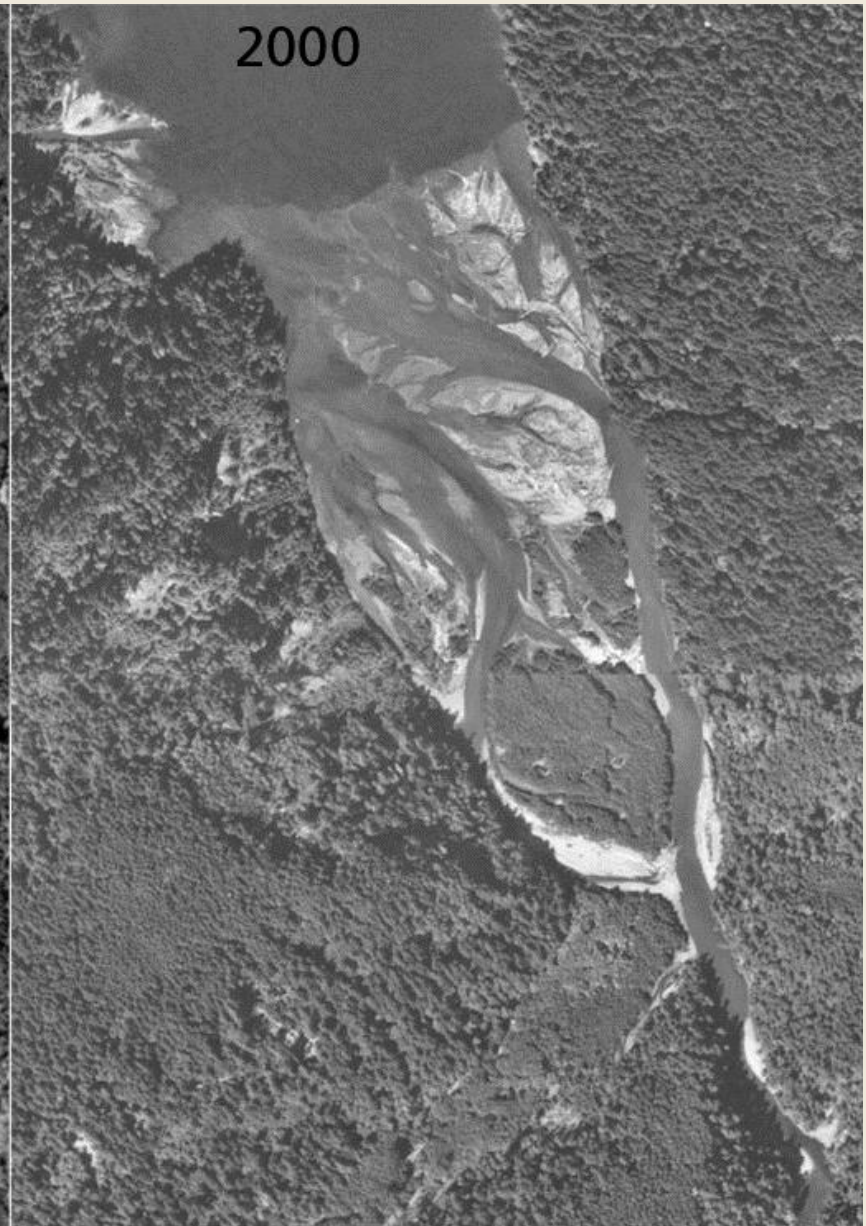
Olympic National Park

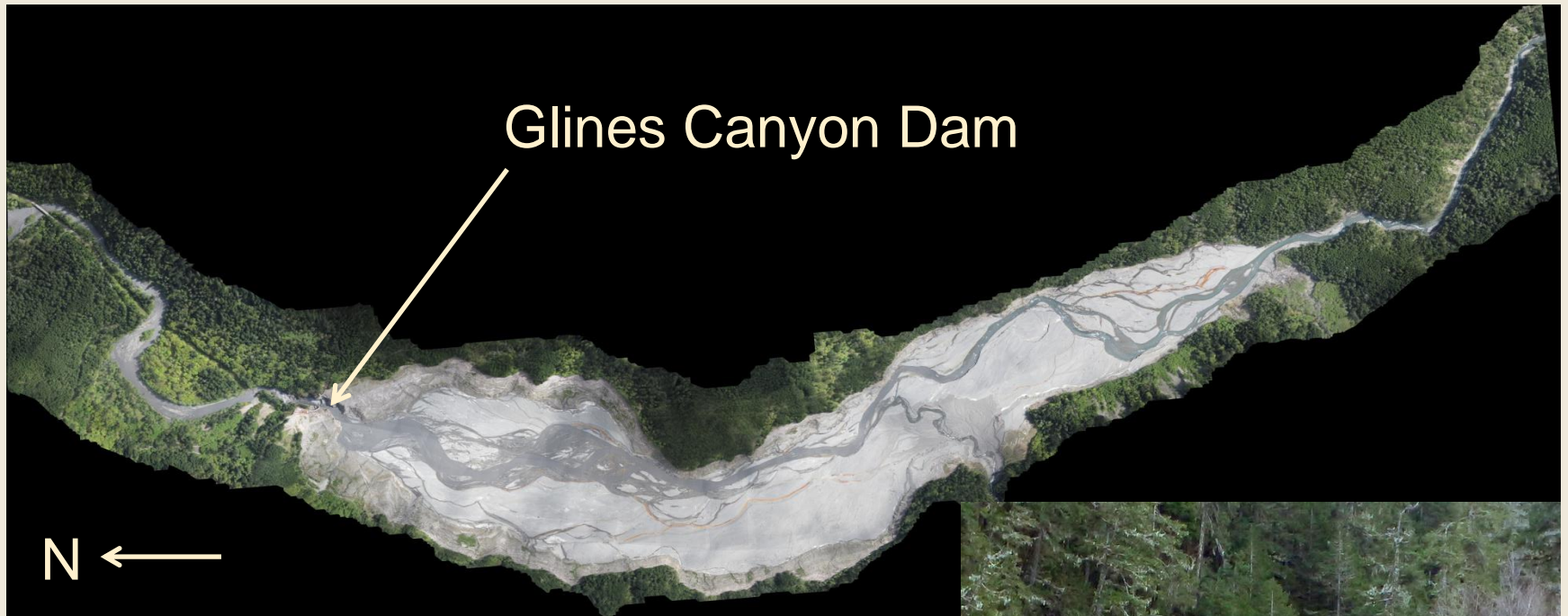




Former Lake Aldwell







Former Lake Mills



Estimated Total Sediment: 27 million cubic yards \pm 4 million cubic yards

Lake Mills Sediment:

- 21.1 million yd³
- $\frac{1}{2}$ clay and silt
- $\frac{1}{2}$ sand and gravel

Lake Aldwell Sediment:

- 6.4 million yd³
- $\frac{2}{3}$ clay and silt
- $\frac{1}{3}$ sand and gravel





Sediment Management Plan

- Remove both dams in controlled increments and allow the river to erode a portion of the reservoir sediments to the sea.
- Rate of dam removal was designed to be fast enough to limit impacts to a few year classes of fish, but slow enough that downstream impacts can be tolerated.



So far, 12.2 ± 0.1 million cubic yards has been eroded through July 2014.

In Lake Mills, 10.2 million cubic yards net erosion.

In Lake Aldwell, 2.0 million cubic yards since September 2011.



Elwha Water Treatment Plant

Elwha Surface
Water Intake



Former Elwha Dam

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Elwha Water Facilities

Elwha Surface Water Intake



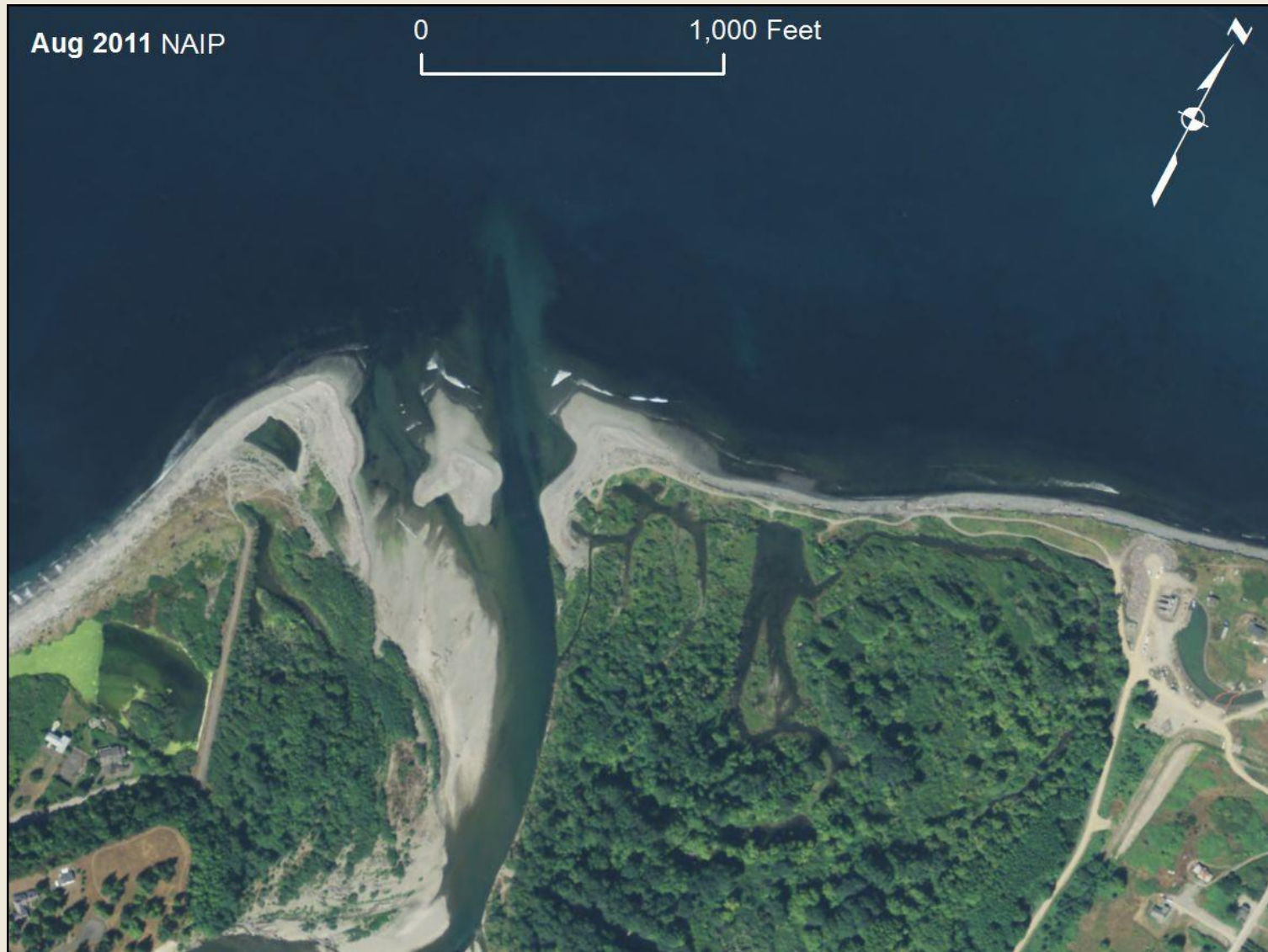
Elwha Water Treatment Plant



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7 August 2013 Elwha River Mouth Tom Roorda and CWI ©

Olympic National Park



21 August 2013 Elwha River mouth Tom Roorda and CWI ©

Elwha nearshore 1 July 2014
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Thank you!

